

Streamlining File Transfers from Pleiades Compute Nodes to Lou

Category: Effective Use of PBS

Some users prefer to streamline the storage of files (created during a job run) to Lou, within a PBS job. Since Pleiades compute nodes do not have network access to the outside world, all file transfers to Lou within a PBS job must go through the front-ends (pfe[1-12], bridge[1,2]) first.

Here is an example of what you can add to your PBS script to accomplish this:

1. Ssh to a front-end node (for example, bridge2) and create a directory on Lou where the files are to be copied.

```
ssh -q bridge2 "ssh -q lou mkdir -p $SAVDIR"
```

Here, \$SAVDIR is assumed to have been defined earlier in the PBS script. Note the use of `-q` for quiet-mode, and double quotes so that shell variables are expanded prior to the `ssh` command being issued.

2. Use `scp` via bridge[1,2] to transfer the files.

```
ssh -q bridge2 "scp -q $RUNDIR/* lou:$SAVDIR"
```

Here, \$RUNDIR is assumed to have been defined earlier in the PBS script.

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<http://www.nas.nasa.gov/hecc/support/kb/entry/125/?ajax=1>